

CLAIMS:

1. A pier to be driven into an earth surface to support a structure to be mounted thereon, said pier including:

an auger member including a shaft that is rotated in a first direction to drive the
5 auger member into the ground surface;

a soil compaction member to compact soil around the shaft, said compaction member including a sleeve surrounding the shaft and movable relative thereto longitudinally of the shaft, and a transverse part extending laterally from and attached to the sleeve to engage the soil surrounding the shaft so that upon downward movement of
10 the compaction member relative to the shaft soil surrounding the shaft is compacted; and wherein

said sleeve is operatively associated with said shaft so that rotation of said compaction member causes rotation of said shaft to thereby drive said auger member.

2. The pier of claim 1 wherein, the pier includes a drive assembly to move
15 the compaction member relative to the shaft.

3. The pier of claim 2 wherein, said drive assembly includes a threaded rod threadably engaged with said shaft and operatively associated with said compaction member so that upon rotation of said rod said compaction member is caused to move relative to said shaft.

4. The pier of claim 3 wherein, said drive assembly includes a head
20 attached to an upper portion of said rod and via which said rod is driven, with said nut applying a force to said compaction member to cause said compaction member to move down said shaft.

5. The pier of any one of claim 1 to 4 wherein, said transverse portion is a
25 plate, with said plate being provided with surfaces they are engaged to cause rotation of said compaction member.

6. The pier of claim 5 said plate is provided with a plurality of apertures which provide said surfaces.

7. The pier of claim 6 said plate extends generally normal to said sleeve.

8. The pier of claim 7 said shaft is square or rectangular in transverse
30 cross-section and said sleeve is square or rectangular in transverse cross section so as to be complimentary with respect to said shaft.

9. A pier substantially or hereinbefore described with reference to the accompanying drawings.